\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$	YYY YYY YYY YYY	\$		00000000 00000000 00000000	AAAAAAA AAAAAAA AAAAAAA	
\$\$\$ \$\$\$	<b>777 777</b>	SSS SSS	LLL	000 000	AAA AAA	
\$\$\$	777 777	\$\$\$ \$\$\$		000 000	AAA	
\$\$\$	AAA AAA	SSS	LLL	000 000	AAA AAA	
SSS SSS	<b>777 777</b>	SSS SSS		000 000	AAA AAA	
\$\$\$\$\$\$\$\$\$	'''	SSSSSSSS	LLL	000 000	AAA AAA	
SSSSSSSS	YYY	\$\$\$\$\$\$\$\$	LLL	000 000	AAA AAA	
\$\$\$\$\$\$\$\$\$ \$\$\$	Y Y Y	\$\$\$\$\$\$\$\$\$		000 000	AAA	
\$\$\$ \$\$\$	YYY	\$\$\$ \$\$\$		000 000 000 000		
SSS	777	SSS	LLL	000 000		
\$\$\$ \$\$\$	<b>777</b>	\$55	LLL	000 000	AAA AAA	
\$\$\$ \$\$\$	YYY	\$\$\$ \$\$\$		000 000 000 000	AAA AAA	
SSSSSSSSSS	<b>Y Y Y</b>	SSSSSSSSSS	iiiilll	00000000	AAA AAA	
\$\$\$\$\$\$\$\$\$\$\$\$	YYY	\$\$\$\$\$\$\$\$\$\$\$\$		00000000	AAA AAA	
\$\$\$\$\$\$\$\$\$\$\$\$	444	\$\$\$\$\$\$\$\$\$\$\$		00000000	AAA AAA	

\_\$2

CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	\$	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	00000000 00000000000000000000000000000	LL LL LL LL LL LL LL LL LL LL LL LL LLLL		NN	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	•••
		\$						

CSP VO4

. .

;

CSPM VO4-

CSPCLIENT Table of contents (2) 67 'EXE\$CSP\_BRKTHRU - Send Break-thru message throughout cluster'

- Client jacket routine calls to CSP

16-SEP-1984 00:31:49 VAX/VMS Macro V04-00

45

46

47

48

49

- Client jacket routine calls to CSP

9 \* 10 \* 11 \* 12 \* 13 \*

14 \*

16 :\* 17 :\* 18 :\*

19 :\*

222234567890

31

.TITLE . IDENT

TRANSFERRED.

CORPORATION.

FACILITY:

ABSTRACT:

**AUTHOR:** 

DATE:

ŎŎŎŎ

ŎŎŎŎ

ŎŎŎŎ

0000 0000

0000 0000

0000

0000

0000

0000 0000

0000 0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

0000

V03-002 JLV0306

V03-001 JLV0284

V03-003 ADE0001

VMS

**REVISION HISTORY:** 

Symbols

**SBRKTDEF \$**CSDDEF **SDYNDEF** 

CSPM V04-

; Code

.PSECT \$\$\$200

; Ro

CSPM VO4-

```
CSPCLIENT
                                           - Client jacket routine calls to CSP 16-SEP-1984 00:31:49 VAX/VMS Macro V04-00 'EXE$CSP_BRKTHRU - Send Break-thru messa 5-SEP-1984 04:08:43 [SYSLOA.SRC]CSPCLIEN1
                                           - Client jacket routine calls to CSP
V04-000
                                                                                                                                [SYSLOA.SRC]CSPCLIENT.MAR: 1
                                                            67 .SBTTL 'EXESCSP_BRKTHRU - Send Break-thru message throughout cluster'
                                                  0000
                                                  ŎŎŎŎ
                                                            69
                                                            70
71
                                                  ŎŎŎŎ
                                                  0000
                                                                   CALLING SEQUENCE:
                                                                                                 JSB
                                                                                                            EXE$CSP_BRKTHRU at IPL 0
                                                  ŎŎŎŎ
                                                  ŎŎŎŎ
                                                                   INPUT PARAMETERS:
                                                                                                 R6
                                                                                                            Address of BRK structure
                                                            74
75
                                                  0000
                                                  0000
                                                                   OUTPUT PARAMETERS:
                                                                                                 RO,R1
                                                                                                           Garbage
                                                            76
77
                                                  0000
                                                  0000
                                                                                                 All registers are preserved except RO,R1.
                                                  ŎŎŎŎ
                                                             78
79
                                                  ŎŎŌŌ
                                                                   COMPLETION CODES:
                                                                                                 R0
                                                                                                            completion status:
                                                  0000
                                                                                                            SS$_NORMAL = normal success
                                                  0000
                                                            81
                                                                                                                         = various error codes
                                                  0000
                                                  0000
                                                                EXESCSP_BRKTHRU::
                                                            84
85
                                                  0000
                                                  ŎŎŎŎ
                                                  0000
                                                            86
87
                                                                                  Get a CSD.
                                                  ŎŎŎŎ
                                                  ŎŎŎŎ
                                                  0000
                              0080 06
                                                                           MOVZWL BRK$W_MSGLEN(R6),R7
                                                                                                                                 ; Message length
                         00000072 8F
           51
                  57
                                                  0005
                                                                                                                                 : Add to CSD header
                                                                           ADDL3
                                                                                      #CSD$AB DATA -
                                                  dood
                                                             9ĭ
                                                                                      +CSD$T_BRK_MSGBUF,R7,R1
                                                            92
93
94
                                                                                      GAEXESALLOC_CSD
                         00000000 GF
                                                  ÖÖÖD
                                            16
E9
                                                                           JSB
                                                                                                                                    Allocate and init a CSD
                                 5E 50
                                                  0013
                                                                           BLBC
                                                                                      RO,200$
                                                                                                                                  : If LBC, return error
                                                  0016
                                                            95
                                                  0016
                                                            96
97
                                                  0016
                                                                                  Init private portion of CSD
                                                  0016
                                                  0016
                                                            99
                                                  0016
                                                                           ASSUME CSD$L_RECVOFF EQ 4+CSD$L_RECVLEN
                                                           100
                                                  0016
                                 1A A2
22 A2
                                                 0016
                                                           101
                                                                           CLRQ
                                                                                      CSD$L_RECVLEN(R2)
                                                                                                                                    No return data this trip
                                                           102
                                            D4
                                                 0019
                                                                                      CSD$A_ASTADR(R2)
                                                                           CLRL
                                                                                                                                    No AST needed -- return will
                                                  001 C
                                                                                                                                    therefore be synchronous
                                                                                     S^#EXE$C_SYSEFN,CSD$B_EFN(R2)
#1,CSD$L_CSID(R2)
CSD$AB_DATA(R2),R8
R2,R8,CSD$L_SENDOFF(R2)
#C$D$T_BRK_MSGBUF,R7,-
CSD$L_SENDLEN(R2)
#CSD$K_BRKTHRU,CSD$W_CODE(R2)
                          33 A2
0E A2
                                                                                                                                 ; Legal event flag
; Use ALL BUT 'my' node
                                                  0010
                                                           104
                                                                           MOVB
                                            01
                                                           105
                                                 0020
                                                                           MNEGL
                                 52
                                     A2
52
                                                                                                                                    Get ptr to private data area
                           58
                                                  0024
                                                           106
                                                                           MOVAB
                              58
57
                    16 A2
12 A2
                                                  0028
                                                           107
                                                                           SUBL3
ADDL3
                                                                                                                                    fill in the xmt data offset
                                     2Ō
                                            C1
                                                  002D
                                                           108
                                                                                                                                   fill in the xmt data length
                                                  0032
                                                           109
                          OC A2
                                     02
                                            B0
                                                                           MOVU
                                                           110
                                                                                                                                : Client code
                                                  0036
                                                           111
                                                                                  Copy in BRKTHRU specific protocol
                                                           115
                                                                                     CSD$L_BRK_FLAGS
CSD$T_BRK_SENDTO
CSD$W_BRK_SNDTYP
CSD$W_BRK_REQID
CSD$W_BRK_TIMOUT
CSD$W_BRK_MSGLEN
                                                                                                                   4+CSD$L_BRK_CARCON
4+CSD$L_BRK_FLAGS
CSD$T_BRK_SENDTO+BRK$S_SENDNAME
2+CSD$W_BRK_SNDTYP
2+CSD$W_BRK_REQID
2+CSD$W_BRK_TIMOUT
                                                                           ASSUME
                                                                           ASSUME
                                                                                                              EQ
                                                                                                              ĒQ
                                                                           ASSUME
                                                  0036
                                                                                                              ĒQ
                                                           119
                                                                           ASSUME
                                                  0036
                                                                                                              ĒQ
                                                                           ASSUME
                                                           121
                                                                                                              ĒQ
                                                  0036
                                                                           ASSUME
                                                                                                                    2+CSD$W_BRK_MSGLEN
                                                                           ASSUME
                                                                                      CSD$T_BRK_MSGBUF
```

52 11227890123456789 12277333333333333 58 R8\_R3 MOVL first address BRK\$L\_CARCON(R6),(R3)+
BRK\$L\_FLAGS(R6),(R3)+
#CSD\$5\_BRK\_SENDTO,BRK\$T\_SENDNAME(R6),(R3)+
BRK\$W\_SENDTYPE(R6),(R3)+
BRK\$L\_REQID(R6),(R3)+ D0 D0 D0 D0 34 38 MOVE carriage control MOVL Flags 10 MOVC3 **3**C Copy in send to string 4 Č 50 A6 **B**0 MOVW Send type A6 BÖ MOVW Requestor ID (low word) A6 57 57 BRK\$W\_SECONDS(R6),(R3)+ R7,(R3)+ 4E BÓ MOVW Time out in seconds B0 28 WVOM Copy length 008E C6 63 MOVC3 R7, BRK\$T\_MSGBUF(R6), (R3) and message data 52 8ED0 005D POPL R2 Get address of CSD 0060 0060

140

141

144

145

146

147

148

149

160 161

162 .END

0060

0060

0060

0060

0060

0060

0060

0060

0060

0060

**CSPCLIENT** 

V04-000

Send the buffer to the target node.

Since we specified an AST address of O, the call does not return until the dialogue with the last node has completed. Furthermore, this means that we should deallocate the CSD whether or not there's an error.

See EXESCSP BRDCST preamble if an AST routine is to be added. Also, if an AST routine is to be added, make sure that our caller does not have AST's enabled.

150 151 152 153 154 155 156 157 158 159 0060 0060 00000000 GF JSB G^EXE\$CSP\_BRDCST Send message out to world 50 DD 0066 RO PUSHL Save status 0068 DO MOVL R2,R0 Input to deallocate routine 00000000 GF 0068 16 JSB G^EXE\$DEALLOC\_CSD Done with it. 50 8ED0 05 **POPL** RO Recover status 2005: RSB

: Done

; Rc

; 3

```
- Client jacket routine calls to CSP
                                                                                                            16-SEP-1984 00:31:49 VAX/VMS Macro V04-00 
5-SEP-1984 04:08:43 [SYSLOA.SRC]CSPCLIENT.MAR;1
 CSPCLIENT
 Symbol table
BRK$L_CARCON
BRK$L_FLAGS
BRK$L_REQID
BRK$S_SENDNAME
BRK$T_MSGBUF
BRK$T_SENDNAME
BRK$W_MSGLEN
BRK$W_SECONDS
BRK$W_SENDTYPE
                                               = 00000034
                                                 00000038
                                                 00000050
                                                 00000010
                                                 0000008E
                                                 00000030
                                                 0000080
                                                 0000004E
BRK$W_SENDTYPE
CSD$AB_DATA
CSD$A_ASTADR
CSD$B_EFN
CSD$K_BRKTHRU
CSD$L_BRK_CARCON
CSD$L_BRK_FLAGS
CSD$L_CSID
CSD$L_RECVOFF
CSD$L_SENDLEN
CSD$L_SENDLEN
CSD$L_SENDOFF
CSD$S_BRK_SENDTO
CSD$T_BRK_MSGBUF
CSD$T_BRK_MSGBUF
CSD$W_BRK_REQID
                                                 00000040
                                                 00000052
                                                 00000022
                                                 00000033
                                                 00000002
                                                 0000000
                                                 00000004
                                                 000000E
                                                 0000001A
                                                 0000001E
                                                 00000012
                                                 00000016
                                                 00000010
                                                 00000020
                                                 00000008
                                                 0000001E
CSDSW_BRK_REQID
                                                 0000001A
CSD$W_BRK_SNDTYP
CSD$W_BRK_TIMOUT
CSD$W_CODE
EXE$ACLOC_CSD
                                                 ^0000018
                                               = 0000001C
                                               = 0000000C
EXESCSP_BRDCST
EXESCSP_BRKTHRU
EXESC_STSEFN
                                                                       03
03
                                                  ******
                                                 00000000 RG
                                                                       03
03
                                                 *****
EXESDEALLOC_CSD
                                                 ******
                                                                        ! Psect synopsis!
PSECT name
                                                Allocation
                                                                             PSECT No.
                                                                                              Attributes
   ABS
                                                00000000
                                                                             00
                                                                                      0.)
                                                                                              NOPIC
                                                                                                         USR
                                                                                                                  CON
                                                                                                                           ABS
                                                                                                                                    LCL NOSHR NOEXE NORD
                                                                                                                                                                     NOWRT NOVEC BYTE
SABSS
                                                                      0.)
                                                00000000
                                                                             01
                                                                                      1.)
                                                                                              NOPIC
                                                                                                         USR
                                                                                                                  CON
                                                                                                                           ABS
                                                                                                                                    LCL
                                                                                                                                          NOSHR
                                                                                                                                                     EXE
                                                                                                                                                               RD
                                                                                                                                                                        WRT
                                                                                                                                                                             NOVEC BYTE
$$$190
                                                00000000
                                                                                              NOPIC
                                                                                                         USR
                                                                                                                  CON
                                                                                                                           REL
                                                                                                                                    LCL
                                                                                                                                          NOSHR
                                                                                                                                                      EXE
                                                                                                                                                               RD
                                                                                                                                                                        WRT NOVEC BYTE
$$$200
                                                00000075
                                                                   117.)
                                                                                              NOPIC
                                                                                                         USR
                                                                                                                  CON
                                                                                                                           REL
                                                                                                                                    LCL NOSHR
                                                                                                                                                      EXE
                                                                                                                                                               RD
                                                                                                                                                                        WRT NOVEC BYTE
                                                                    ! Performance indicators !
Phase
                                                            CPU Time
                                     Page faults
                                                                                  Elapsed Time
                                                                                  00:00:01.22
                                                 29
                                                            00:00:00.06
 Initialization
                                                112
187
                                                            00:00:00.40
 Command processing
                                                            00:00:02.15
00:00:00.25
                                                                                  00:00:08.67
Pass 1
                                                 47
                                                                                  00:00:01.62
Symbol table sort
                                                            00:00:00.46
Pass 2
                                                                                  00:00:00.03
Symbol table output
```

CSPM

V04-

**CSPM** 

V04-

: Ro

: 4

363 GETS were required to define 7 macros.

TOTALS (all libraries)

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:CSPCLIENT/OBJ=OBJ\$:CSPCLIENT MSRC\$:CSPCLIENT/UPDATE=(ENH\$:CSPCLIENT)+EXECML\$/LIB+LIB\$:CLUSTER/LIB

0394 AH-BT13A-SE

## DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

